



CHIEF DIRECTORATE: EXAMINATIONS AND ASSESSMENT

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ASSESSMENT INSTRUCTION 47 OF 2021

TO: DEPUTY DIRECTORS-GENERAL
CHIEF DIRECTORS
HEAD OFFICE DIRECTORS AND DISTRICT DIRECTORS
CHIEF EDUCATION SPECIALISTS
CIRCUIT MANAGERS
DEPUTY CHIEF EDUCATION SPECIALISTS
SENIOR EDUCATION SPECIALISTS
PRINCIPALS OF PUBLIC AND INDEPENDENT SCHOOLS
TEACHER UNIONS/ORGANISATIONS
SCHOOL GOVERNING BODIES

DATE: 11 OCTOBER 2021

**PROCEDURES AND GUIDELINES FOR THE CONDUCT OF THE FINAL PRACTICAL
EXAMINATIONS IN COMPUTER APPLICATIONS TECHNOLOGY AND INFORMATION
TECHNOLOGY – NSC EXAMINATION: NOVEMBER 2021**

1. The procedures that must be adhered to during the conduct of the final practical examinations for Computer Applications Technology (CAT) and Information Technology (IT), are brought to the attention of all concerned.
2. Teachers and schools must verify that the software tools they use to implement CAT and/or IT, comply with all the content and skills as listed in the Curriculum and Assessment Policy Statement (CAPS) and latest Examination Guidelines for CAT and IT. Examination papers will NOT cater for or be adapted to provide for tools that do not comply with the CAPS or Examination Guidelines. (Also refer to point numbers 7 and 8 in this circular).
3. Districts are also kindly requested to support schools offering CAT and IT to acquire software licenses where applicable, as these are viewed as core Learning and Teaching Support Material (LTSM) for CAT and IT.

4. **COVID-19 regulations relating to health and safety protocols must be observed at all times.** The social distancing rule, where candidates must be seated 1,5 metres apart, must be applied. To this end, examination centres may have to apply to the Head of Examinations in the province for permission to conduct two sessions or more, if necessary (ANNEXURE C). Hand sanitisation and disinfection of the computer centre and computer equipment must take place before, during and after the conduct of the examination. Invigilators, computer technicians and learners must wear cloth face masks at all times.
5. You are reminded to refer to the procedures stipulated in Annexure G, Government Gazette 37651 of 2014, of the *Regulations pertaining to the Conduct, Administration and Management of the National Senior Certificate Examination*.
6. Prior to the examination districts must:
 - Ensure that all schools offering CAT and IT have been audited and are ready to conduct the practical examinations. Where schools do not have the resources to conduct the examination, districts must ensure that adequate arrangements have been made for candidates to write at an alternative venue.
 - Have plans in place to provide data files and organise computer laboratories in preparation for the examinations.
 - Ensure that they have received data files from Provincial Examination Directorate, in all the formats compatible to the programs used by all their schools.
7. The November 2021 Computer Applications Technology (CAT) examination makes provision for the following software packages:
 - The latest three versions of Microsoft Office will be allowed for examination purposes. For 2021 this will be, MS Office 2019 (also known as MS Office 365), MS Office 2016 and MS Office 2013.
 - Notepad ++ or Notepad for the development of web pages.
8. The November 2021 Information Technology examinations provide learner files which are compulsory to use by candidates when they do their practical examination. The learner files were prepared and are to be used by candidates with the following software packages:
 - Delphi 2010 and upwards
 - MS Access 2010 and upwards
9. Districts must ensure that all schools offering CAT and IT are audited a prior to the examinations. The checklist for this process (**Annexure A**) is attached. It can also be completed by using the link <https://forms.office.com/r/wgsQmvt1PB>. All districts must have the audit completed and reports available before 13 October 2021.
10. Districts must consolidate the audit reports to determine the readiness of all centres offering CAT and IT to write the 2021 Grade November NSC Examination.

11. After the consolidation of the audit reports districts must submit a declaration to the Provincial Examination Directorate indicating the outcomes of the audit. The declaration form (**Annexure B**) is attached and should be forwarded to the Examinations and Examination Chief Directorate by 15 October 2021 for the attention of Mr F. Ntsangani, telephone 040 602 7099, E-mail: Fezeka.Ntsangani@ecdoe.gov.za.
12. Prior to the practical examination the CAT/IT educator must refer to **ANNEXURE A** and ensure that:
- the regional settings are set to South Africa;
 - the date and time settings, number settings and currency settings are set correctly;
 - the language is set to English (South Africa), the paper size is set to A4 Portrait and the units of measurement is set to centimetres in the word processing application; the Developer tab is activated in the word processor application;
 - the Autosave option is set to 5-minute intervals;
 - no communication can take place between candidates on the network/computers;
 - all previous files/folders/documents are removed or isolated;
 - the web browser displays images;
 - the required software for IT (Delphi 2010) is properly installed and tested;
 - the required software for CAT is properly installed and tested. (i.e. Office 2019 also known as MS Office 365), or MS Office 2016 or MS Office 2013, Notepad ++ or Notepad)
13. On the day of the practical examination the Invigilator must ensure that:
The general instructions contained in the CAT P1 and IT P1 question paper are read out to the candidates before giving the candidates their own 10-minute reading time.
14. During the practical examination the Chief Invigilator must ensure that:
- In addition to the invigilator, an experienced CAT or IT teacher is present during all practical sessions, so that he or she can provide assistance ONLY in the event of a technical malfunction
 - All invigilation requirements are strictly adhered to
 - All security processes are carried out under the supervision of the invigilator
 - The correct procedures are followed in the case of a power failure or a computer malfunction
15. After the practical examination is completed, the invigilator must ensure that:
- Candidates check whether all their files are stored within their examination folders and labelled with their correct examination numbers.
 - Candidates complete the Information Sheet (centre number, examination number, application package used, e.g. MS Office, version, e.g. Office 2019, web browser used, e.g. Internet Explorer and the file names to be marked for each question are completed) and ensure that the information matches their examination folders.
 - The teacher retrieves all candidates' folders via the network or uses a flash disk to copy all folders to one central computer or server and checks that every candidate's file in the folder corresponds with the information on the Information Sheet.

- The teacher writes all the candidates' folders to compact disks (CD) or digital versatile disks (DVD) to be submitted for marking. Two back-up disks (CDs/DVDs) must be written at the same time, one of which must be safely stored at the examination centre and the other submitted together with the original to the examination section of the district. This must be done under the supervision of the invigilator.
 - No candidate leaves the examination room until all administrative processes regarding the conduct of the practical examinations have been completed.
16. The CAT/IT teacher must check the following with regards to the folders saved onto the CD/DVD.
 - The name/label of each candidates' folder must be the examination number of the candidate.
 - The candidate's folder is checked to ensure that all files in the folder match the files listed on the cover/information sheet.
 - The examination numbers of candidates appear in a sorted numeric order on the CD/DVD.
 - The files in the folders for every candidate must be tested at another computer other than the computer used for the copying process. This test is to ensure that the files open successfully.
 17. Should candidates' folders or files be missing, the Chief Invigilator should try to recover the missing or damaged folders or files before the CD/DVD is written and submitted it to the district officials.
 18. The number of candidates folders stored/copied to each CD/DVD must correlate with the number of candidates listed on the mark sheet(s) received. For example, if there are 40 candidates listed on a mark sheet, the accompanying CD/DVD must have the folders for all 40 candidates in the same order. If more than one CD/DVD has been used, then all the CDs/DVDs must be packed together with the relevant list of names of candidates.
 19. IT candidates must check that the code of all units have been printed and then place their printouts in the correct order before handing in to the invigilator. Ensure that all pages contain their examination number.
 20. The CAT/IT teacher, together with the invigilators, should complete and sign the checklist provided by the provincial examination directorate. A sample of the checklist is attached (**Annexure B**).
 21. Candidates' files may not be saved on flash disks as the potential of having entire files deleted due to viruses is greater with flash disks. Districts are requested to ensure that schools have access to CD/DVD writers and the CAT/IT teacher knows how to write data to a CD/DVD before the examinations.
 22. A full report on any technical problems or irregularities that might have occurred during the examinations must be submitted to the provincial head office (e.g. missing/damaged files, time lost due to power outages/faulty equipment, deviation from instructions, etc.).

23. The following timeframes are suggested for ONLY one and two examination sittings respectively:

ONE SITTING	TIME ALLOCATED	DURATION
Seated in computer laboratory		08:30
Reading time	10 minutes	08:50–09:00
Paper 1 (Practical)	3 hours	09:00–12:00
Print (if applicable) and finalise answers, collect folders, write CDs/DVDs	120 minutes (will depend on number of candidates)	12:00–14:00

TWO SITTINGS		DURATION	
	TIME ALLOCATED	FIRST SITTING	SECOND SITTING
Seated in computer laboratory		07:30	13:00
Reading time	10 minutes	07:50–08:00	13:20–13:30
Paper 1 (Practical)	3 hours	08:00–11:00	13:30–16:30
Print (if applicable) and finalise answers, collect folders, write CD/DVDs, clean computers etc.	120 minutes	11:00–13:00	16:30–18:30

24. Candidates may not leave the examination venue until all printing has been completed (applicable to IT) and all candidates' folders and files have been submitted and written to CD/DVDs.
25. Candidates sitting for the second session must report an hour before the end of the first sitting to be escorted to the computer room before the start of the second sitting. This will be done after all the candidates from the first sitting have left the computer room.
26. If there are any queries regarding the procedures for the conduct of practical examinations, these should be directed to the directorate responsible for examinations in the province.
27. The question papers and the associated data disks will be delivered on Monday, 11 October and deliveries will conclude on Tuesday, 12 October 2021. Districts are then required to hand over the data disks to school and examination centres on Thursday, 14 October 2021 in order for them to do the necessary verification.
28. It is imperative that before handing over disks to any examination centre the district must ensure that the centre have been audited and declared ready to conduct the practical examination.

29. In cases where examination centres will make use of two sittings to conduct the practical examination, application must be made, and permission will have to be granted (See **ANNEXURE C**). Districts must ensure that learners are adequately supervised throughout the process.
30. Once the data disks have been verified, the information is collated (See **ANNEXURE D**) and the report must be e-mailed to Fezeka.Ntsangani@ecdoe.gov.za by Monday, 18 October 2021.
31. Your co-operation in ensuring the administration for a successful examination in these subjects is greatly appreciated.



11 October 2021

MR R. TYWAKADI
DDG: CURRICULUM MANAGEMENT AND DELIVERY

DATE

CERTIFICATION (State of Examination Readiness)

PROCEDURES AND GUIDELINES FOR THE CONDUCT OF THE FINAL PRACTICAL EXAMINATIONS IN COMPUTER APPLICATIONS TECHNOLOGY AND INFORMATION TECHNOLOGY – NATIONAL SENIOR CERTIFICATE: SEPTEMBER 2021

Centres must ensure that all items on this checklist are revisited and are in place TWO days before the examination)

School name		Tel. no	
District		Fax no.	
EMIS no.		Cell no.	
Examination centre no.			
E-mail address			
Name of chief invigilator		Cell no.	
Name of IT teacher (s)	1.	2.	
Name of CAT teacher (s)	1.	2.	
Name of IT technician who will be on standby during the examination		Cell no.	
1	How many Grade 12 learners will be writing CAT in 2021?		
2	How many Grade 12 learners will be writing IT in 2021?		
3	How many operational computers are available for one examination sitting?		
4	How many Grade 12 CAT class units does your school have?		
5	How many Grade 12 IT class units does your school have?		
6	How many computer centres at your school will be used for the practical examination?		
7	Will the COVID-19 regulations, health and safety protocols be observed? i.e. disinfection of the computer centre <input type="checkbox"/> computer equipment hand sanitisation <input type="checkbox"/> wearing of cloth face masks and <input type="checkbox"/> social distancing <input type="checkbox"/>		
8	How many examination sittings will be required, one or two? If two, have you applied for a second session?		
9	Will your centre be writing at a venue other than your own examination centre? If so, please state the venue _____		

10	What plans are in place in case of a power failure?		
11	Is the computer centre networked?		
12	If the centre is networked, what type of network environment is installed? E.g. peer-to-peer; client-server.		
13	Which operating system is used at your school? E.g. Windows 10		
14	Which software application suite is used? E.g. Microsoft Office 2019		
15	<p>Indicate with a tick <input type="checkbox"/> or a cross x whether each of the following programs have been properly installed on the computers in the examination centre</p> <p>Word processor <input type="checkbox"/> Spreadsheet <input type="checkbox"/></p> <p>Database <input type="checkbox"/> Presentations <input type="checkbox"/></p> <p>Notepad ++ <input type="checkbox"/> PDF reader <input type="checkbox"/></p> <p>Delphi 2010 <input type="checkbox"/></p>		
16	Have the latest updates/service packs been installed?		
17	Have the regional settings on the computers been set as follows?		
	17.1	Region: South Africa	
	17.2	Format: English (South Africa)	
	17.3	Language preferences: Short date: yyyy/MM/dd Long date: dddd, dd MMMM yyyy Short time: e.g. 10:01 AM Long time: e.g. 10:01:11 AM First day of week: Sunday	
	17.4	Additional settings: Customise Format: Numbers Tab Decimal symbol: . (full stop) . (full stop) No. of digits after decimal: 2 List separator: , (comma) , (comma) Measurement system: Metric	
	17.5	Additional Settings > Customise Format > Currency Tab Currency symbol: R Decimal symbol: . (full stop)	
18	Has the units of measurement in the word processing application been set to centimetres?		
19	Has the Developer Tab in the word processing application been activated?		
20	Has the Ruler in the word processing application been activated?		

21	Have computers been set to save at 5-minute intervals for every application?	
22	Have accessories such as Paint been installed to be available to the candidates?	
23	Which anti-virus program has been installed?	
24	At what intervals is the anti-virus program updated?	
25	Have printer drivers been installed on each computer used for the CAT examination? (It is necessary to install and test printers on each computer, even though printing may or may not take place.)	
26	Have printers been installed for printing during the IT examination?	
27	Has the Recycle Bin on every computer been emptied/Will it be emptied one day before the examinations?	
28	Is there a plan in place for emptying the recycle bin on every computer before the 2 nd sitting?	
29	Has every computer been cleared of all other files/folders/documents not needed for the examination? (The work of other classes must be isolated.)	
30	Has the school installed CD/DVD writers?	
31	Has the feature to use flash/memory disks been disabled on all computers for the duration of the practical examination?	
32	Will access to the internet be blocked/disabled for the duration of the practical examination?	
33	What option will be used to transfer the candidates' work to the final DVD/CD to be submitted for marking? E.g. flash/memory disk; network.	
34	Are security systems in place to prevent the computers being stolen or accessed?	
35	Does the school have a maintenance plan/budget in place for the computer centre?	

CERTIFICATION (State of Examination Readiness) – continued

**COMPUTER APPLICATIONS TECHNOLOGY AND INFORMATION TECHNOLOGY –
NATIONAL SENIOR CERTIFICATE: NOVEMBER 2021**

All items on ANNEXURE A have been checked.

(Centres must ensure that all items on this checklist are revisited and are in place
TWO days before the examination)

CAT TEACHER

IT TEACHER

SIGNATURE

DATE

SIGNATURE

DATE

SCHOOL PRINCIPAL

IT TECHNICIAN

SIGNATURE

DATE

SIGNATURE

DATE

School stamp

Verified by
WARD MANAGER/SUBJECT
ADVISOR/DISTRICT EXAMINATIONS
AND ASSESSMENT
SERVICES/DISTRICT ICT SERVICES

Comments, if any

SIGNATURE

DATE



Checklist to be signed and submitted to the examination section of the assessment body with CDs and Information Sheets immediately after the CAT/IT practical examinations

	Action/Instruction	Yes	No
Learners			
1	All learners labelled their electronic examination folder using their examination numbers		
2	All learners checked that all their files submitted for marking are stored within their electronic examination folder		
3	All learners checked that the files submitted for marking can open (no shortcuts, no damaged or missing files, etc.)		
4	All learners completed and submitted the Information Sheet provided		
CAT/IT teachers			
5	CAT/IT teacher checked that all the electronic folders of learners have been retrieved/collected from a central computer or individual computers		
6	Invigilator(s) collected all the Information Sheets from learners after they were completed in full		
7	CAT/IT teacher checked that the contents of each electronic folder or file corresponded with the information on the learner's Information Sheet		
8	CAT/IT teacher checked that all the learners' electronic folders or files can open from a central computer/folder (no shortcuts, damaged/missing files)		
9	CD/DVD, corresponding with mark sheet, was written and contains all the learners' folders and files		
10	After the CD/DVD was written, it was checked on a different computer to ensure that ALL folders or files submitted could open		
11	Two back-up CDs were written, one to be sent together with the original to the PED and the second one to be retained in a safe at the examination centre		
Chief Invigilator			
12	CDs/ Information DVDs and Sheets have been packed according to instructions		
13	A report regarding any technical glitches/irregularities or deviation from instructions has been completed and submitted (if applicable)		
14	Checklist has been signed and submitted		

CENTRE NUMBER:

DATE

CHIEF INVIGILATOR

CAT/IT TEACHER

APPLICATION FOR CAT P1 PRACTICAL (TWO SESSIONS)

SUBJECT:							
EXAM PERIOD:							
DISTRICT							
CMC							
EXAMINATION CENTRE							
EXAM CENTRE NO.							
NATURE OF CENTRE	FULL-TIME			PART-TIME			
CHIEF INVIGILATOR							
CONTACT DETAILS (Cellphone and e-mail)							
REASON FOR APPLICATION (Please specify e.g. lack of computers)							
TOTAL NUMBER OF CANDIDATES							
NUMBER OF CANDIDATES SESSION 1							
NUMBER OF CANDIDATES SESSION 2							
COMMENTS/NOTES							
<p>I, the undersigned hereby attest the information furnished is correct and that the steps as underlined will be undertaken to ensure that a credible examination process is conducted.</p>							
DESIGNATION:							
NAME:							
SIGNATURE:							

DISTRICT VERIFICATION OF CAT/IT PRACTICAL EXAMINATIONS DATA DISKS

SUBJECT:				
EXAM PERIOD:				
DISTRICT				
CMC				
NUMBER OF CENTRES	FULL-TIME		PART-TIME	
AUDITING OFFICIAL				
CONTACT DETAILS (Cellphone and e-mail)				
VERIFICATION OF DATA DISKS	Handed over to centres	YES	NO	
PROBLEMS REPORTED (Specify nature and remedial steps)				
NUMBER OF CANDIDATES SESSION 1 (All centres)				
NUMBER OF CANDIDATES SESSION 2 (All centres)				
COMMENTS/NOTES				
<p>I, the undersigned hereby attest the information furnished is correct and that the steps as underlined will be undertaken to ensure that a credible examination process is conducted.</p>				
DESIGNATION:				
NAME:				
SIGNATURE:				
DATE:				